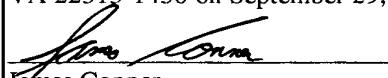
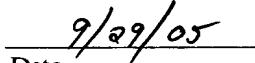


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of) Customer No. 37003
 MIROWSKI, Piotr)
 Application N°: 10/538,961) Group Art Unit:
 Int'l Appl. No.: PCT/GB2004/000304)
 Filed: June 14, 2005) Examiner:
 Title: SYSTEM AND METHOD FOR INFERRING) Docket N°: 57.0547 US PCT
 GEOLOGICAL CLASSES)
)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendments, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 29, 2005.


 James Conner


 Date

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendments
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450
 Sir:

In accordance with 37 C.F.R. §1.56, 1.97 and 1.98, the Applicants wish to bring the reference materials listed in the attached Form PTO-1449 to the attention of the U. S. Patent and Trademark Office. Copies of the references are provided for the Examiner's convenience.

No representation is made or intended that a complete and exhaustive prior art search has been made, or that no better references than those set forth below are available. Furthermore, this Statement does not constitute an admission that these references are properly citable against the present application as prior art.

It is respectfully requested that these references be considered by the Examiner and formally made of record in this case.

This information disclosure statement is being filed before receipt of the first office action. Therefore, applicants believe that no fees are due. However, in the event that the first office action has been mailed prior to the filing of this information disclosure statement, the Commissioner is authorized to charge or credit any deficiency/overpayment to Deposit Account No. 19-0615. Two copies of this paper are attached.

Respectfully submitted,


Judy Lynn DeStefanis
Registration N° 44,653

Schlumberger-Doll Research
36 Old Quarry Road
Ridgefield, Connecticut 06877-4108
Phone: (203) 431-5505
Fax: (203) 431-5640
Date: September 29, 2005

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.

SERIAL NO.

57.0547 US PCT

10/538,961

LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANTS

Mirowski

FILING DATE

June 14, 2005

GROUP

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	AA	5,444,619	08/22/95	Hoskins et al
	AB	5,566,270	10/15/96	Albesano et al
	AC	6,011,557	01/04/00	Keskes et al
	AD			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes	No
	AE	20002769A	01/07/00	JP	Abstract only	
	AF					

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION,
PERTINENT PAGES, ETC.)

	AG	Bishop Neural networks for pattern recognition Oxford Press 1995, pages 332-384
	AH	Carr Log-linear models, Markov chains and cyclic sedimentation Journal of Sedimentary Petrology 1982, vol 52(3) pages 905-912
	AI	Eidsvik et al Estimation of geological attributes from a North Sea well log: an application of hidden Markov chains Norges Teknisk - Naturvitenskapelige Universitet. Submitted for publication in 2002
	AJ	Gingerich Markov analysis of cyclic alluvial sediments Journal of Sedimentary Petrology 1969, vol 39, pages 330-332
	AK	Hall et al Estimation of critical formation evaluation parameters using techniques of Neurocomputing Society of Professional Well Log Analysts Annual Logging Symposium 1995, 36 th , France 1995, Transactions, p PPP1-PPP12



		Jiang et al Segmentation of seafloor sidescan imagery using Markov random fields and neural networks IEEE 1993 vol 3, Conference Oceans '93. Engineering in harmony with ocean proceedings. III456-III461
	AM	Miall Markov chain analysis applied to an ancient alluvial plain succession Sedimentology 1973, vol 20, pages 347-364
	AN	Padron et al A hidden Markov model approach for lithology identification from logs Institut National des Telecommunications Evry, Universidad Central de Venezuela, Caracas, Universite Pierre et Marie Curie, Paris Submitted for the 3 rd Conference on Artificial Intelligence Applications to the Environmental Science, 83 rd Annual Meeting of American Meteorological Society 2003
	AO	Powers et al Improved methodology for using embedded Markov chains to describe cyclical sediments Journal of Sedimentary Petrology 1982, vol 52(3), pages 913 to 923
	AP	Renals et al Connectionist probability estimators in HMM speech recognition IEEE Transaction on Speech and Audio Processing, 1994, vol 2, no 1, part II, pages 161 to XXXX 174
	AQ	Schumann Hidden Markov models for lithological well log classification Freie Universitat Berlin Presented at the Annual Conference of the International Association for Mathematical Geology, 2002.
	AR	Srivastava Hybrid Neural Network/HMM Based Speech Recognition Department for Electrical and Computer Engineering, Mississippi State University, 2001
	AS	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
2. This is not a representation that a search has been made.